

FIGURE 1

#7501501

att ccg gct tct atg gag cac tcg gga cca ggt ccg cg<sup>g</sup> cgc gc<sup>g</sup> cac tcg ctc  
 gct cgc cgc ccc cca gcc agc tct cgc ttc cgc gcc gcc agc cgc gcc cgc cgc  
 ctc ctc gct gca ccc cgc gac cta gag cca aga aag ttt gtg tgg cga gtg agg  
 gcc gga gag gag agc gc<sup>g</sup> ccc gc<sup>g</sup> gag tgc cgt cca gac cag cgc ggc ccc ggc  
 gga gag ggg agc gc<sup>g</sup> cc<sup>g</sup> agc cca ggc ggc ggc tag ccc gag tcc gc<sup>g</sup> acc  
 -26 -20  
 Met Gly Ala Ala Ala Arg Ser Leu Pro Leu Ala Phe  
 ccc gcc cct cc<sup>g</sup> ccc gcc atg ggc gcc gcc cgc agc ctg cc<sup>g</sup> ctc gc<sup>g</sup> ttc  
 -10 -1 1  
 Cys Leu Leu Leu Leu Gly Thr Leu Leu Pro Arg Ala Asp Ala Cys Ser Cys Ser  
 tgc ctc ctg ctg ctg ggg acg ctg ctc ccc cgg gcc gac gcc tgc agc tgc tcc  
 10 20  
 Pro Val His Pro Gln Gln Ala Phe Cys Asn Ala Asp Ile Val Ile Arg Ala Lys  
 cc<sup>g</sup> gtg cac cc<sup>g</sup> caa cag gc<sup>g</sup> ttt tgc aat gca gac ata gtg atc agg gcc aaa  
 30 40  
 Ala Val Asn Lys Lys Glu Val Asp Ser Gly Asn Asp Ile Tyr Gly Asn Pro Ile  
 gca gtc aat aag aag gag gtg gac tct ggc aac gac atc tac ggc aac ccc atc  
 50  
 Lys Arg Ile Gln Tyr Glu Ile Lys Gln Ile Lys Met Phe Lys Gly Pro Asp Gln  
 aag cgg att cag tat gag atc aag cag ata aag atg ttc aag gga cct gat cag  
 60 70  
 Asp Ile Glu Phe Ile Tyr Thr Ala Pro Ala Ala Val Cys Gly Val Ser Leu  
 gac ata gag ttt atc tac aca gc<sup>g</sup> ccc gcc gct gcc gtg tgt ggg gtc tcc ctg  
 80 90  
 Asp Ile Gly Gly Lys Lys Glu Tyr Leu Ile Ala Gly Lys Ala Glu Gly Asn Gly  
 gac att gga gga aag aag gag tat ctc att gca ggg aag gcc gag ggg aat ggc  
 100 110  
 Asn Met His Ile Thr Leu Cys Asp Phe Ile Val Pro Trp Asp Thr Leu Ser Ala  
 aat atg cat atc acc ctc tgt gac ttc atc gtg ccc tgg gac acc ctg agt gcc  
 120 130  
 Thr Gln Lys Lys Ser Leu Asn His Arg Tyr Gln Met Gly Cys Glu Cys Lys Ile  
 acc cag aag aag agc ctg aac cac agg tac cag atg ggc tgt gag tgc aag atc  
 140  
 Thr Arg Cys Pro Met Ile Pro Cys Tyr Ile Ser Ser Pro Asp Glu Cys Leu Trp  
 act cga tgc ccc atg atc cca tgc tac atc tcc tct cc<sup>g</sup> gac gag tgc ctc tgg  
 150 160  
 Met Asp Trp Val Thr Glu Lys Asn Ile Asn Gly His Gln Ala Lys Phe Phe Ala  
 atg gac tgg gtc acg gag aag aac atc aac gga cac cag gcc aag ttc ttc gc<sup>g</sup>  
 170 180  
 Cys Ile Lys Arg Ser Asp Gly Ser Cys Ala Trp Tyr Arg Gly Ala Ala Pro Pro  
 tgc atc aag aga agc gac ggc tcc tgc gcc tgg tac cgc gga gca gca ccc ccc  
 190 194  
 Lys Gln Glu Phe Leu Asp Ile Glu Asp Pro  
 aag cag gag ttt ctg gac atc gag gac cc<sup>g</sup> taa gca ggc cac cag gac tcc tgg  
 ggc caa ttg aca gtg tcc aag agt tca gac tgg tcc agc tcc gac atc cct tcc  
 tgg aca cag cat gaa taa a

FIGURE 2

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att ccg gcc cgc cgt ccc cca ccc cgc cgc ccc gcc cgg cga att gcg ccc cgc  
 gcc cct ccc ctc gcg ccc ccc aga caa aga gga gag aaa gtt tgc gcg gcc gag  
 cgg ggc agg tga gga ggg tga gcc gcg cgg gag ggg ccc gcc tcg gcc ccg gct  
 cag ccc ccg ccc gcg ccc cca gcc cgc cgc cgc gag cag cgc ccg gac ccc cca  
 -26 Met Gly Ala Ala Ala Arg  
 gcg gcg gcc ccc gcc cgc cca gcc ccc cgg ccc gcc atg ggc gcc gcg gcc cgc  
 -20 -10  
 Thr Leu Arg Leu Ala Leu Gly Leu Leu Leu Leu Ala Thr Leu Leu Arg Pro Ala  
 acc ctg cgg ctg ggc ctc ctg ctg ctg gcg acg ctg ctt cgc ccg gcc  
 -1 10  
 Asp Ala Cys Ser Cys Ser Pro Val His Pro Gln Gln Ala Phe Cys Asn Ala Asp  
 gac gcc tgc agc tgc tcc ccc gtg cac ccc caa cag gcg ttt tgc aat gca gat  
 20 30  
 Val Val Ile Arg Ala Lys Ala Val Ser Glu Lys Glu Val Asp Ser Gly Asn Asp  
 gta gtg atc agg gcc aaa gcg gtc agt gag aag gaa gtg gac tct gga aac gac  
 40 50  
 Ile Tyr Gly Asn Pro Ile Lys Arg Ile Gln Tyr Glu Ile Lys Gln Ile Lys Met  
 att tat ggc aac cct atc aag agg atc cag tat gag atc aag cag ata aag atg  
 60 70  
 Phe Lys Gly Pro Glu Lys Asp Ile Glu Phe Ile Tyr Thr Ala Pro Ser Ser Ala  
 ttc aaa ggg cct gag aag gat ata gag ttt atc tac acg gcc ccc tcc tcg gca  
 80  
 Val Cys Gly Val Ser Leu Asp Val Gly Gly Lys Lys Glu Tyr Leu Ile Ala Gly  
 gtg tgc ggg gtc tcg ctg gac gtt gga gga aag aag gaa tat ctc att gca gga  
 90  
 Lys Ala Glu Gly Asp Gly Lys Met His Ile Thr Leu Cys Asp Phe Ile Val Pro  
 aag gcc gag ggg gac ggc aag atg cac atc acc ctc tgc gac ttc atc gtc ccc  
 110 120  
 Trp Asp Thr Leu Ser Thr Thr Gln Lys Lys Ser Leu Asn His Arg Tyr Gln Met  
 tgg gac acc ctg agc acc acc cag aag aag agc ctg aac cac agg tac cag atg  
 130 140  
 Gly Cys Glu Cys Lys Ile Thr Arg Cys Pro Met Ile Pro Cys Tyr Ile Ser Ser  
 ggc tgc gag tgc aag atc acg ccc tgc ccc atg atc ccg tgc tac atc tcc tcc  
 150 160  
 Pro Asp Glu Cys Leu Trp Met Asp Trp Val Thr Glu Lys Asn Ile Asn Gly His  
 ccg gac gag tgc ctc tgg atg gac tgg gtc aca gag aag aac atc aac ggg cac  
 170  
 Gln Ala Lys Phe Phe Ala Cys Ile Lys Arg Ser Asp Gly Ser Cys Ala Trp Tyr  
 cag gcc aag ttc ttc gcc tgc atc aag aga agt gac ggc tcc tgc gcg tgg tac  
 180 190  
 Arg Gly Ala Ala Pro Pro Lys Gln Glu Phe Leu Asp Ile Glu Asp Pro  
 cgc ggc gcg ccc ccc aag cag gag ttt ctc gac atc gag gac cca taa gca  
 ggc ctc caa cgc ccc tgt ggc caa ctg caa aaa aag cct cca agg gtt tcg act  
 ggt cca gct ctg aca tcc ctt cct gga aac agc atg aat aaa aca ctc atc ccc  
 gga att c

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FIGURE 3

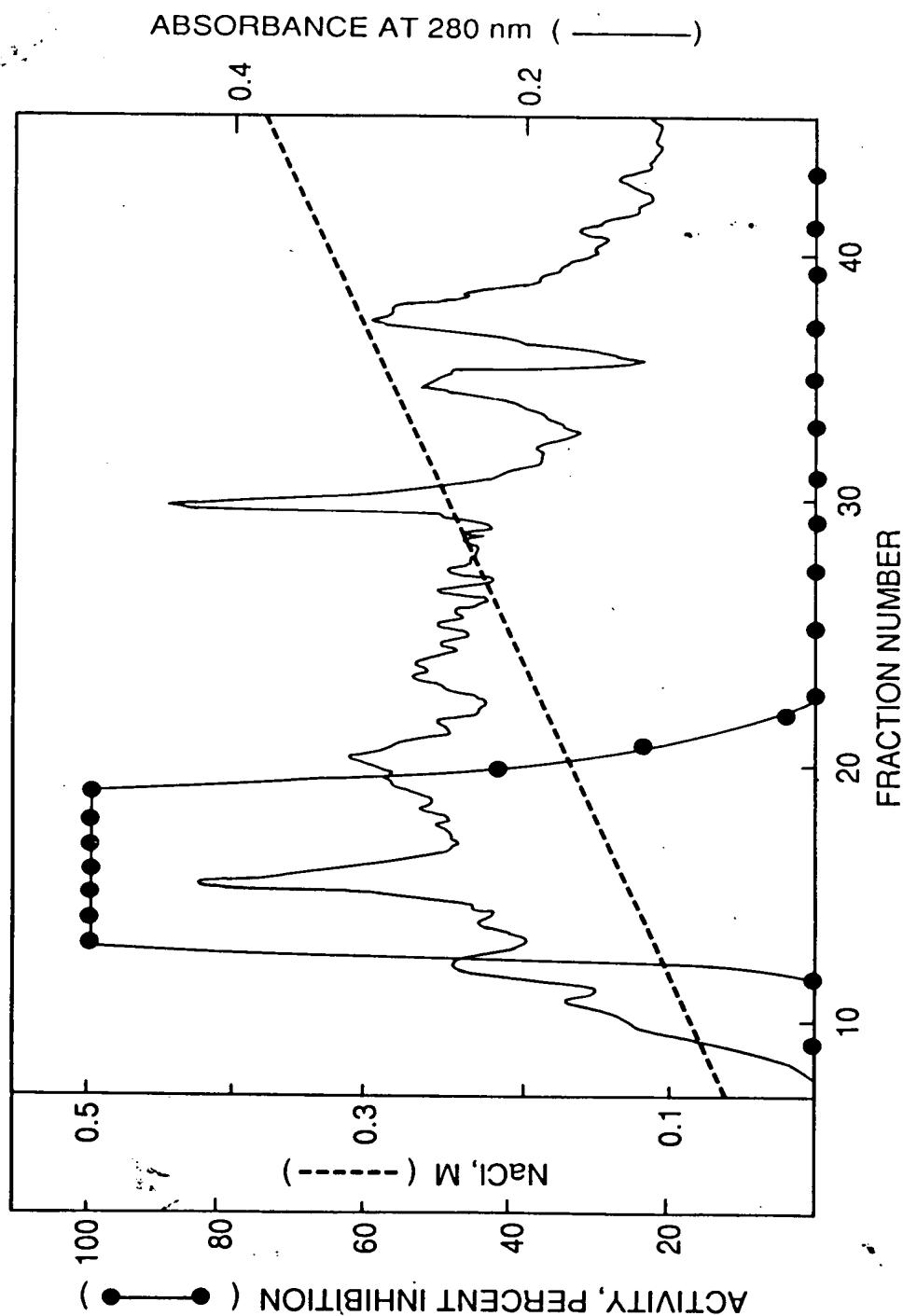


FIGURE 4

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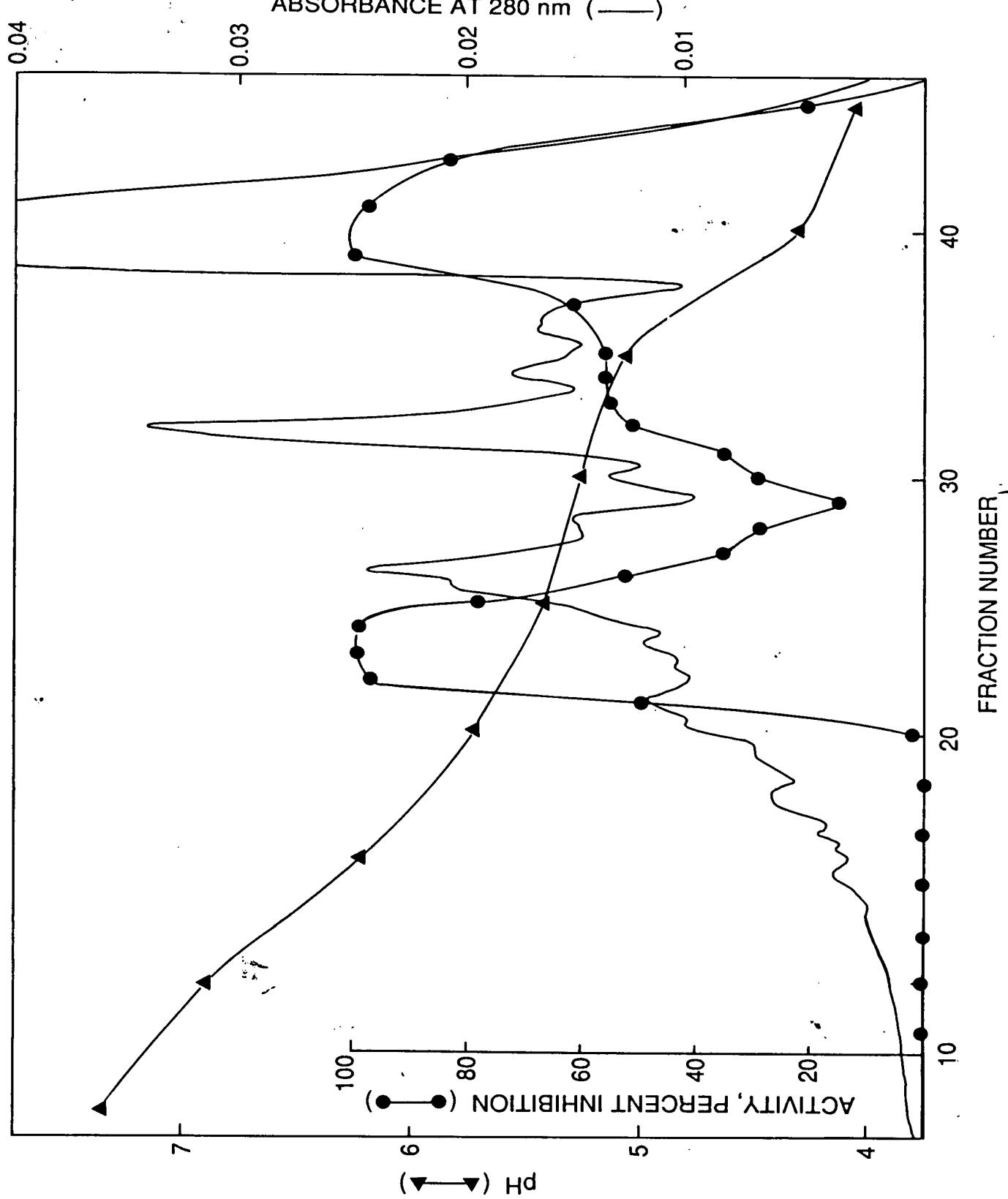


FIGURE 5

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C

974—

662—

427—

31—

215—

144—

3

1

2

B

974—

662—

427—

31—

215—

144—

4

3

2

1

A

974—

662—

427—

31—

215—

144—

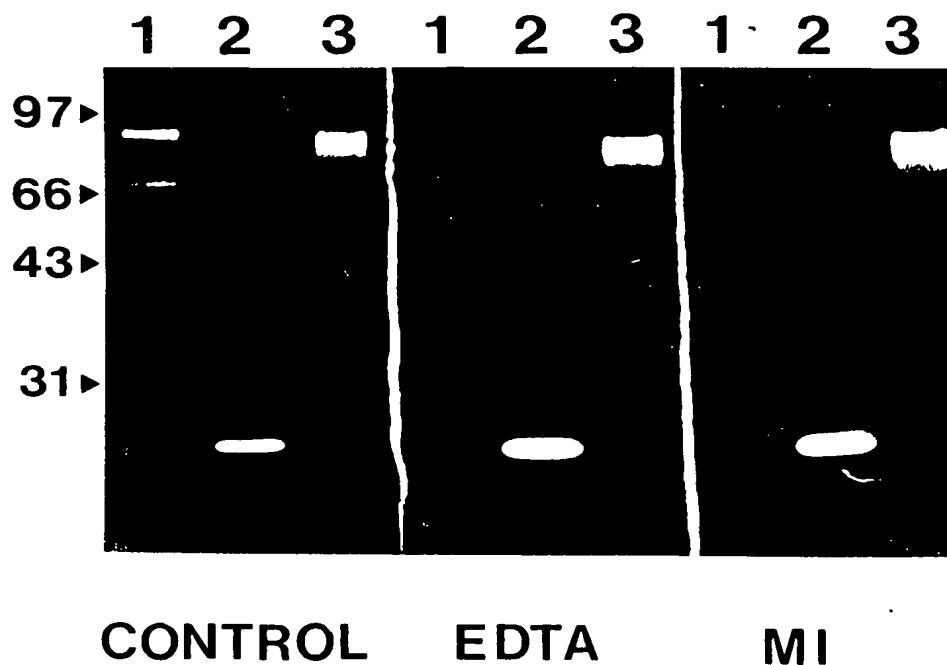
1

2

3

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FIGURE 6



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FIGURE 7

1 2 3

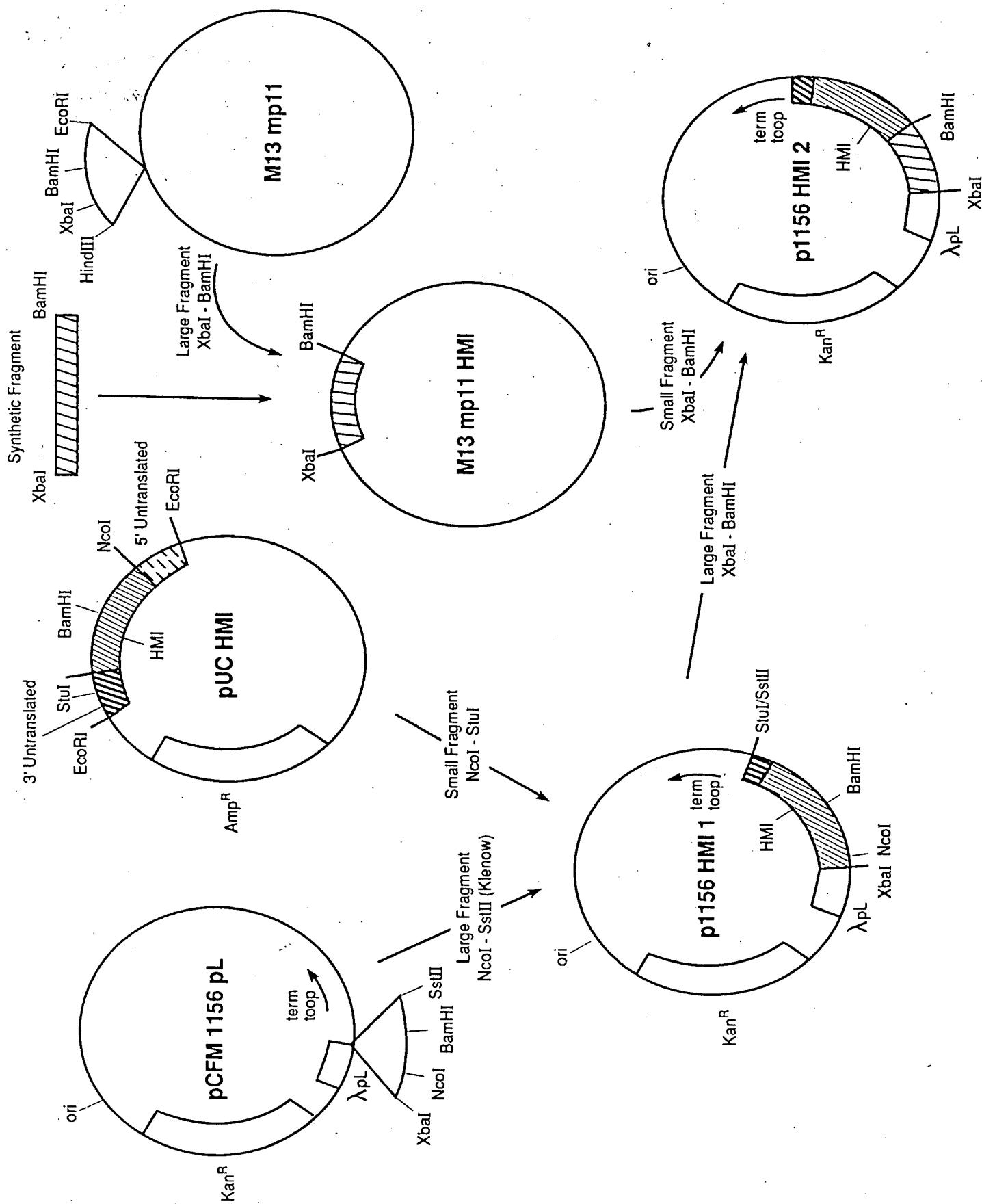
200►— ) $\beta$

116►— = = = ) $a$   
97► ) TC<sup>a</sup>

43► ) TC<sup>b</sup>

FIGURE 8

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FIGURE 9

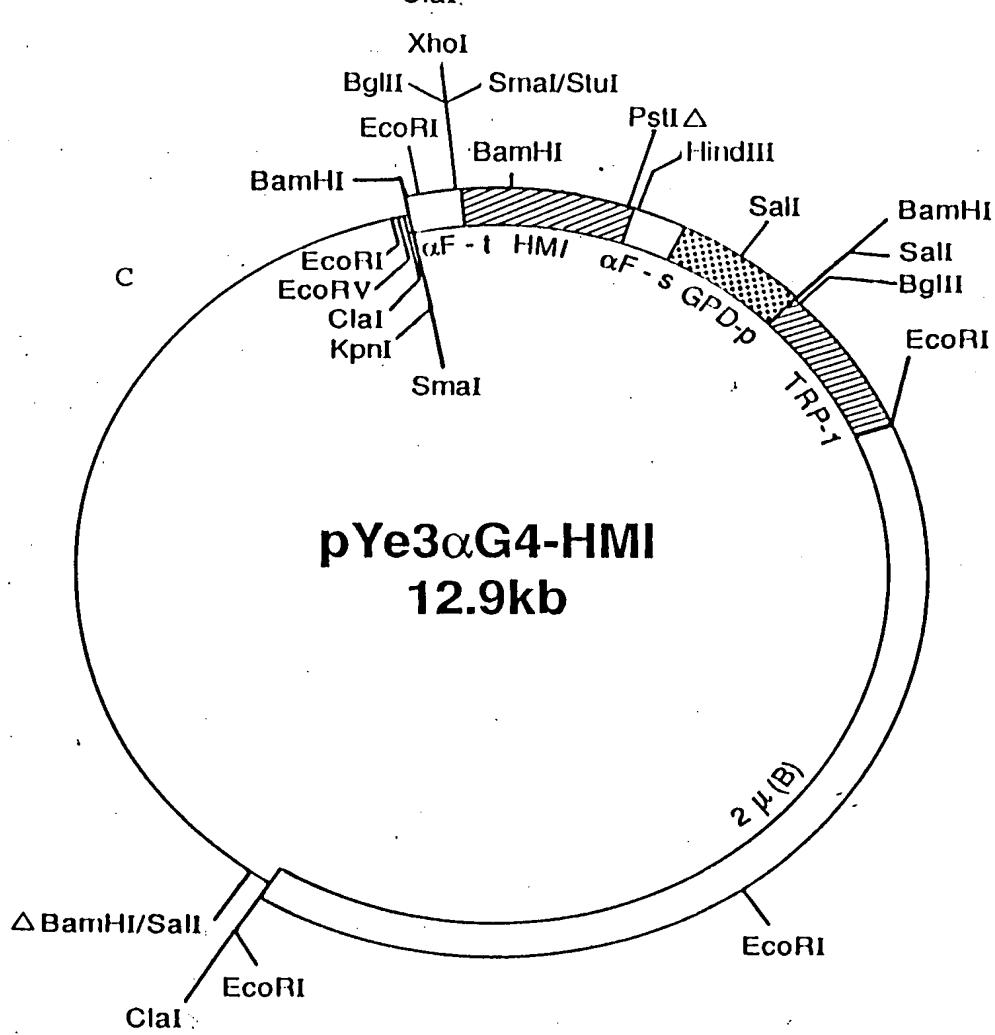
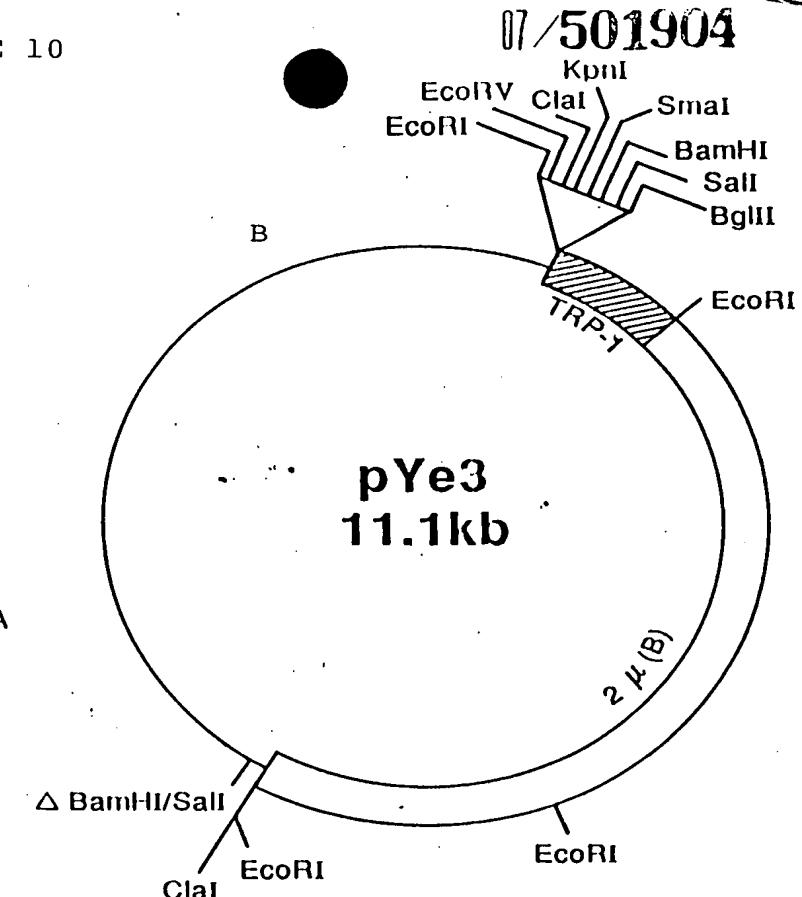
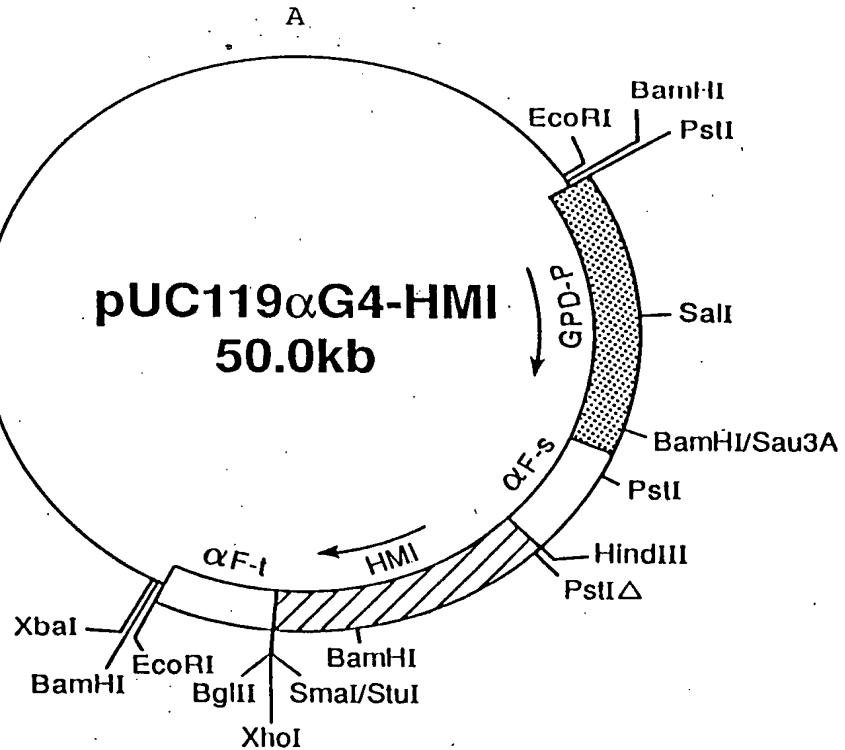
10            20            30            40            50            60  
CTAGAAAAAA CCAAGGAGGT AATAAATAAT GTGTTCTTGT TCTCCTGTAC ACCCTCAACA  
TTTTTT GGTCCTCCA TTATTTATTA CACAAGAACAGAGGGACATG TGGGAGTTGT

70            80            90            100          110          120  
AGCTTTTTGT AACGCTGATG TAGTTATCCG TGCAAAAGCT GTTTCTGAAA AAGAAGTTGA  
TCGAAAAAACAA TTGCGACTAC ATCAATAGGC ACGTTTCGA CAAAGACTTT TTCTTCAACT

130          140          150          160  
TTCTGGTAAC GACATCTACG GTAACCCGAT CAAAAG  
AAGACCATTG CTGTAGATGC CATTGGGCTA GTTTCTTAG

FIGURE 10

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FIGURE 11

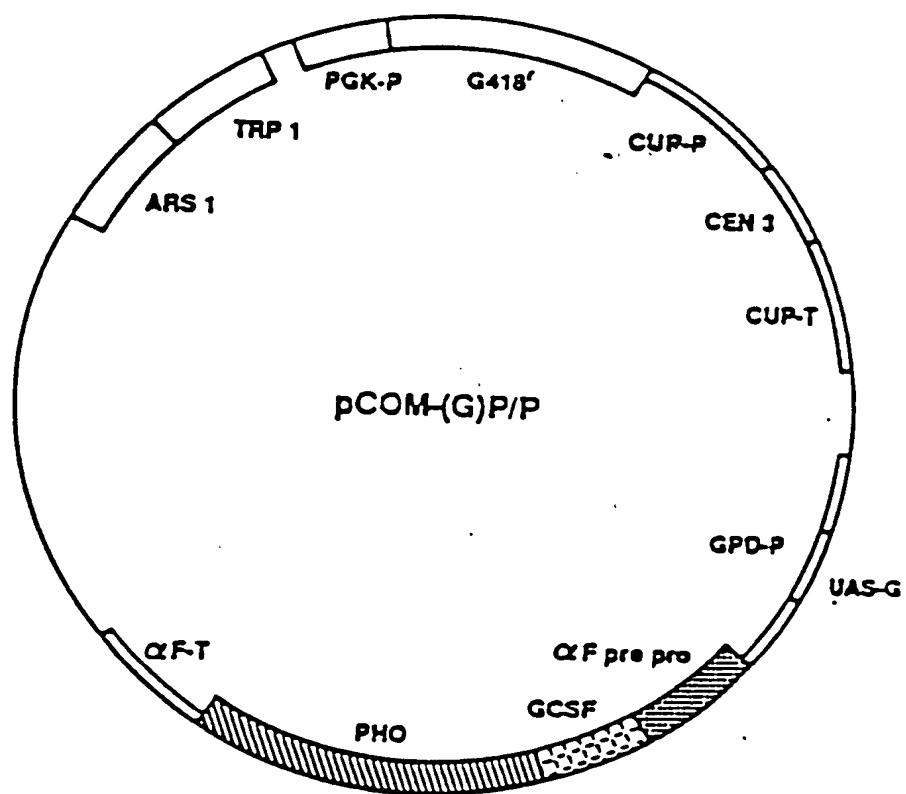
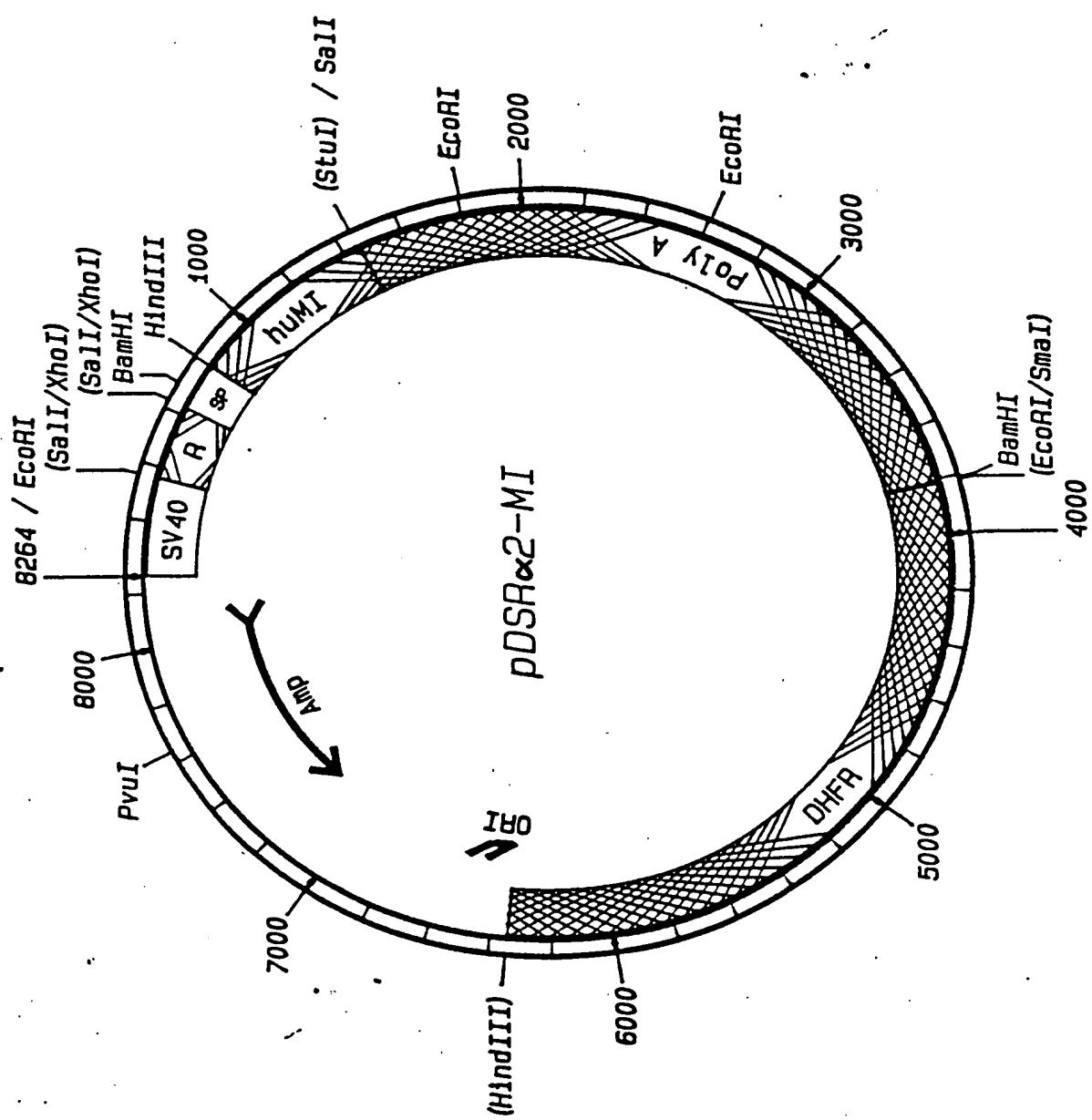


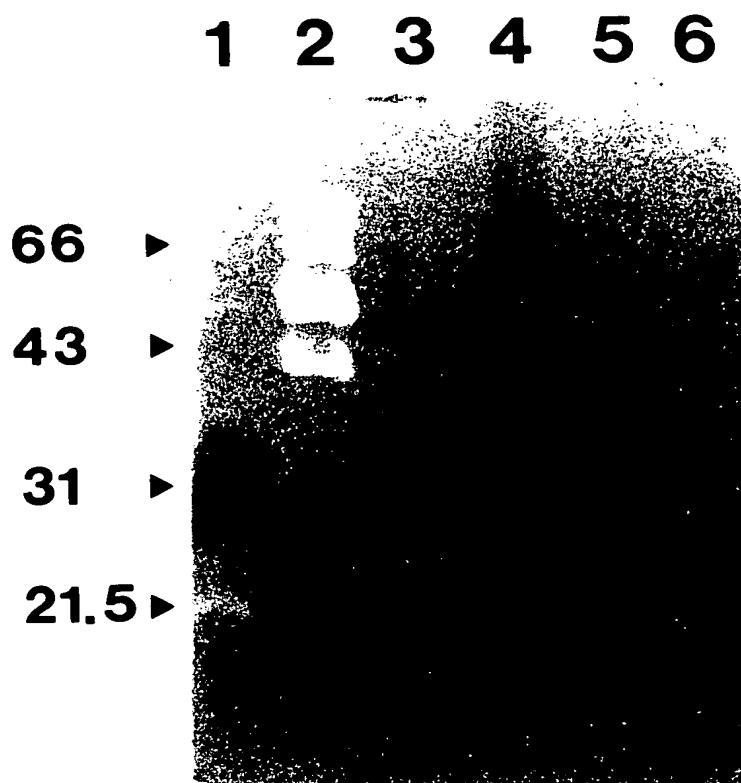
FIGURE 12

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FIGURE 13



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FIGURE 14

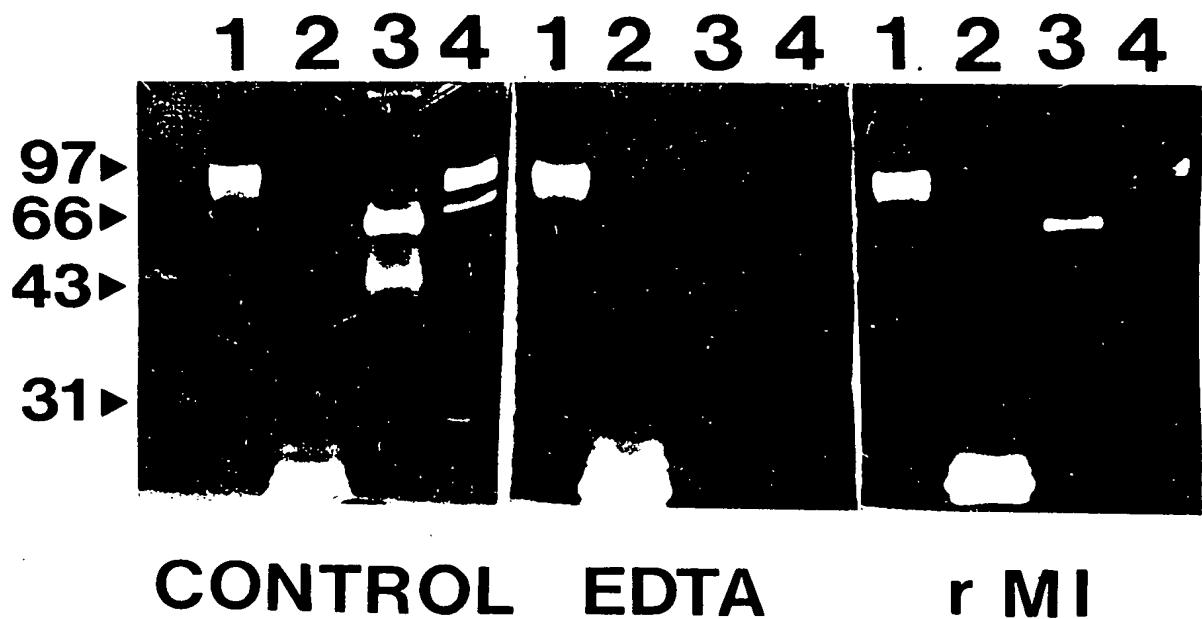
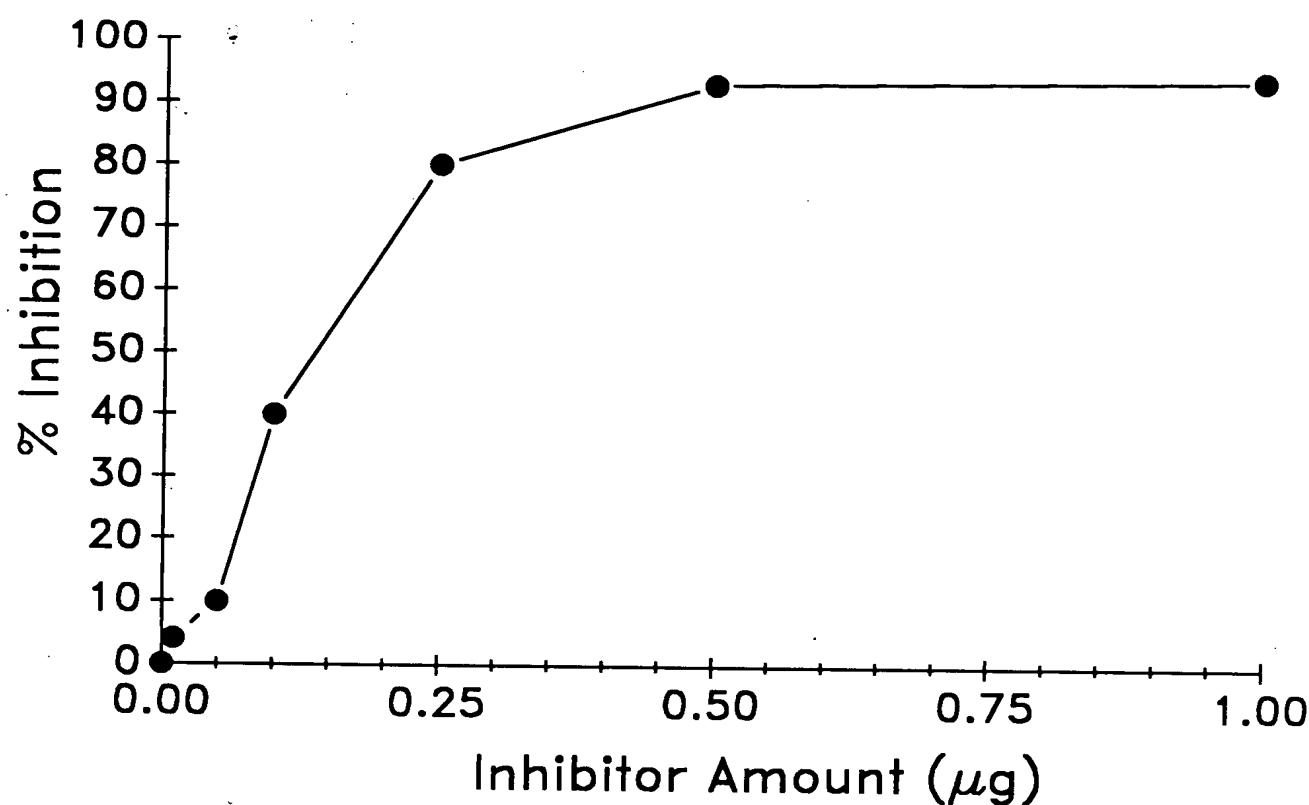


FIGURE 15

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A.



B.

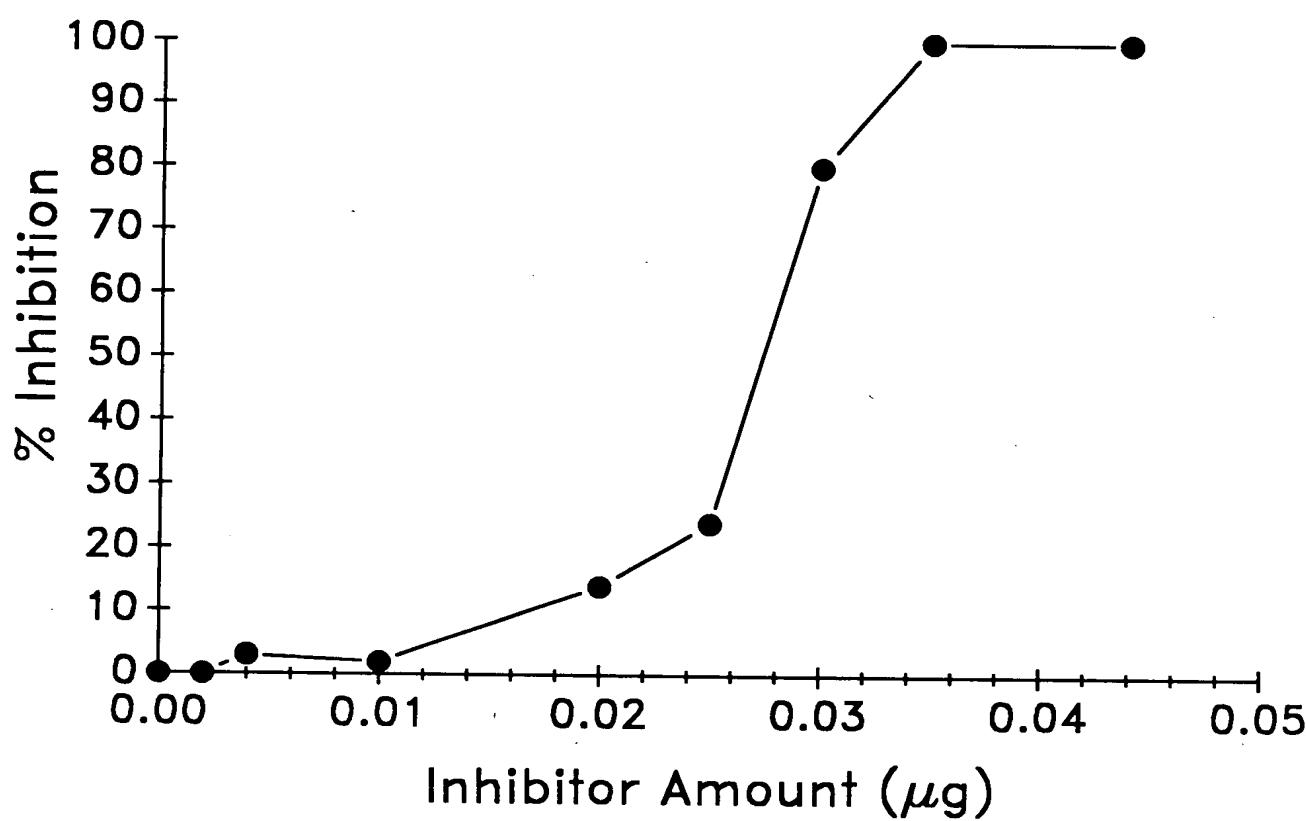


FIGURE 16

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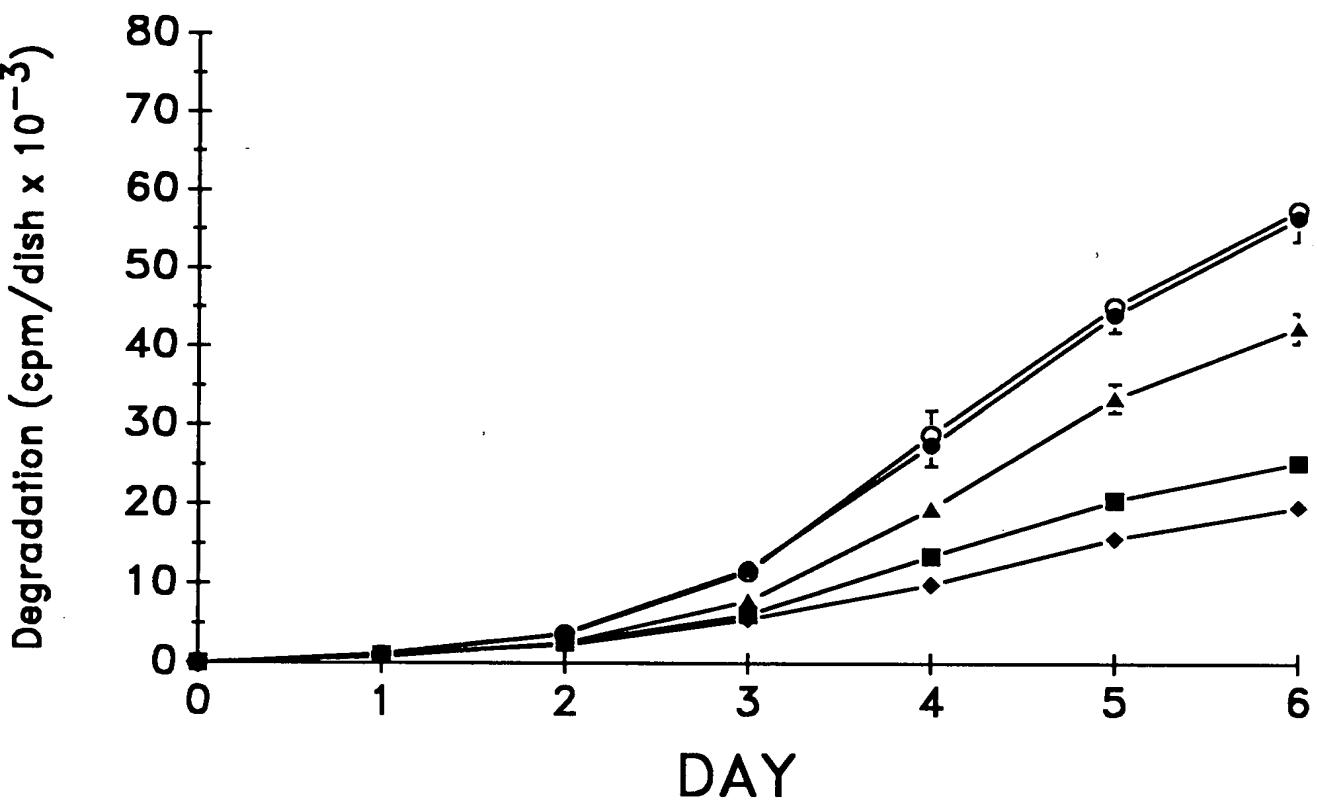


FIGURE 17

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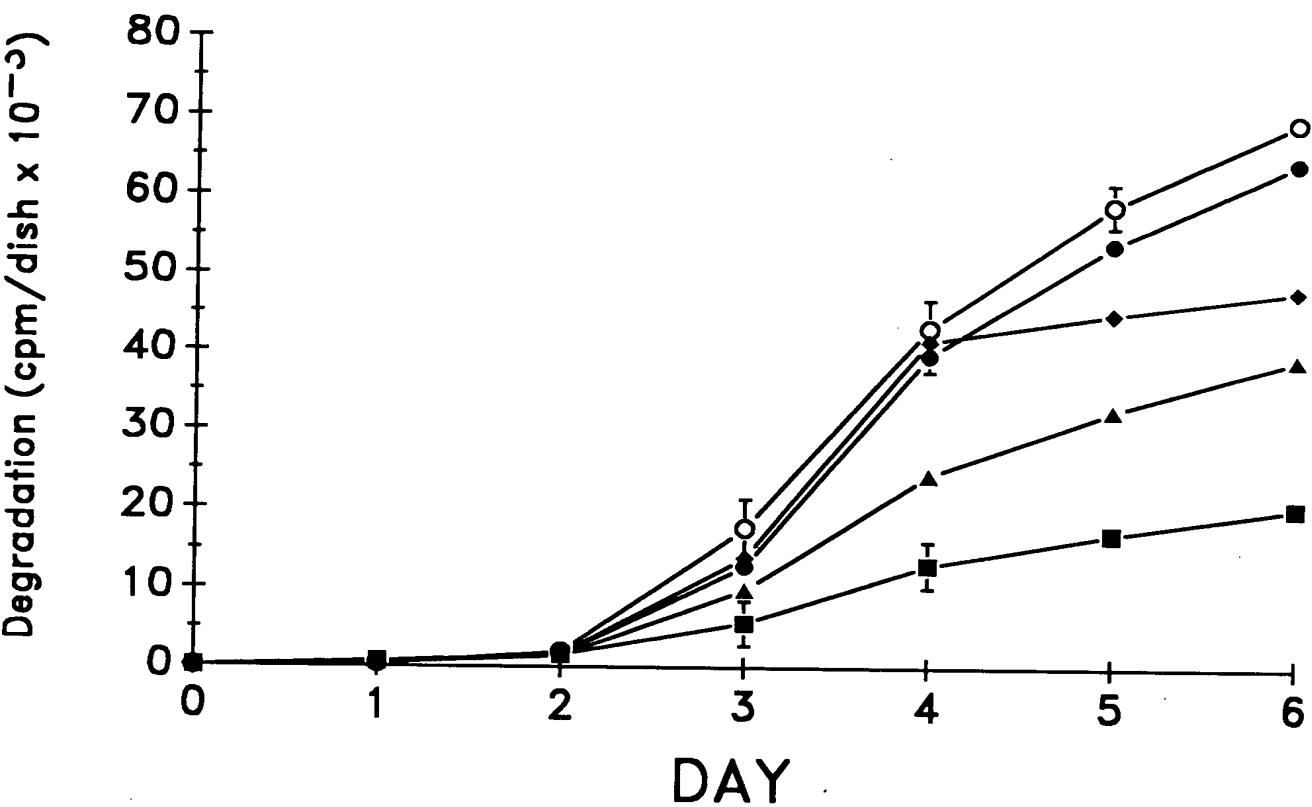
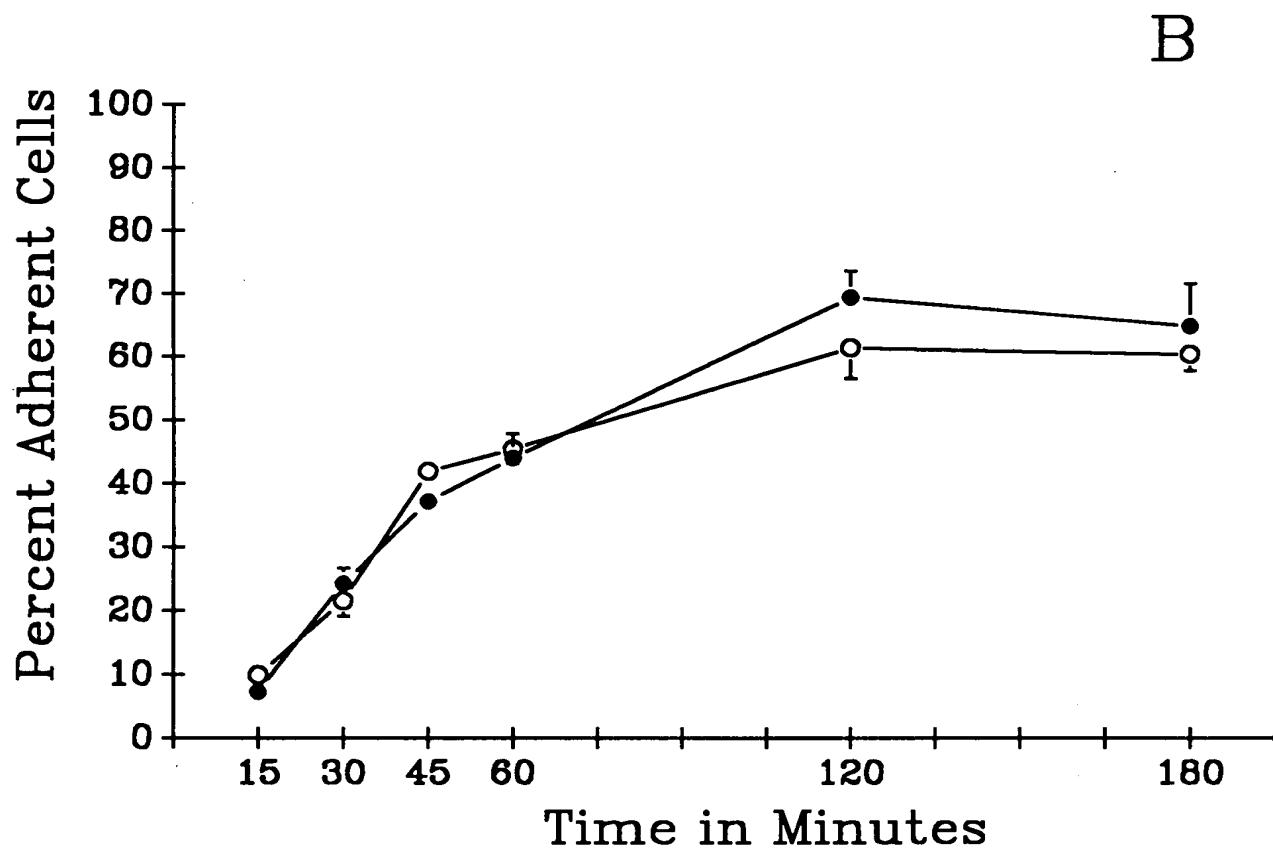
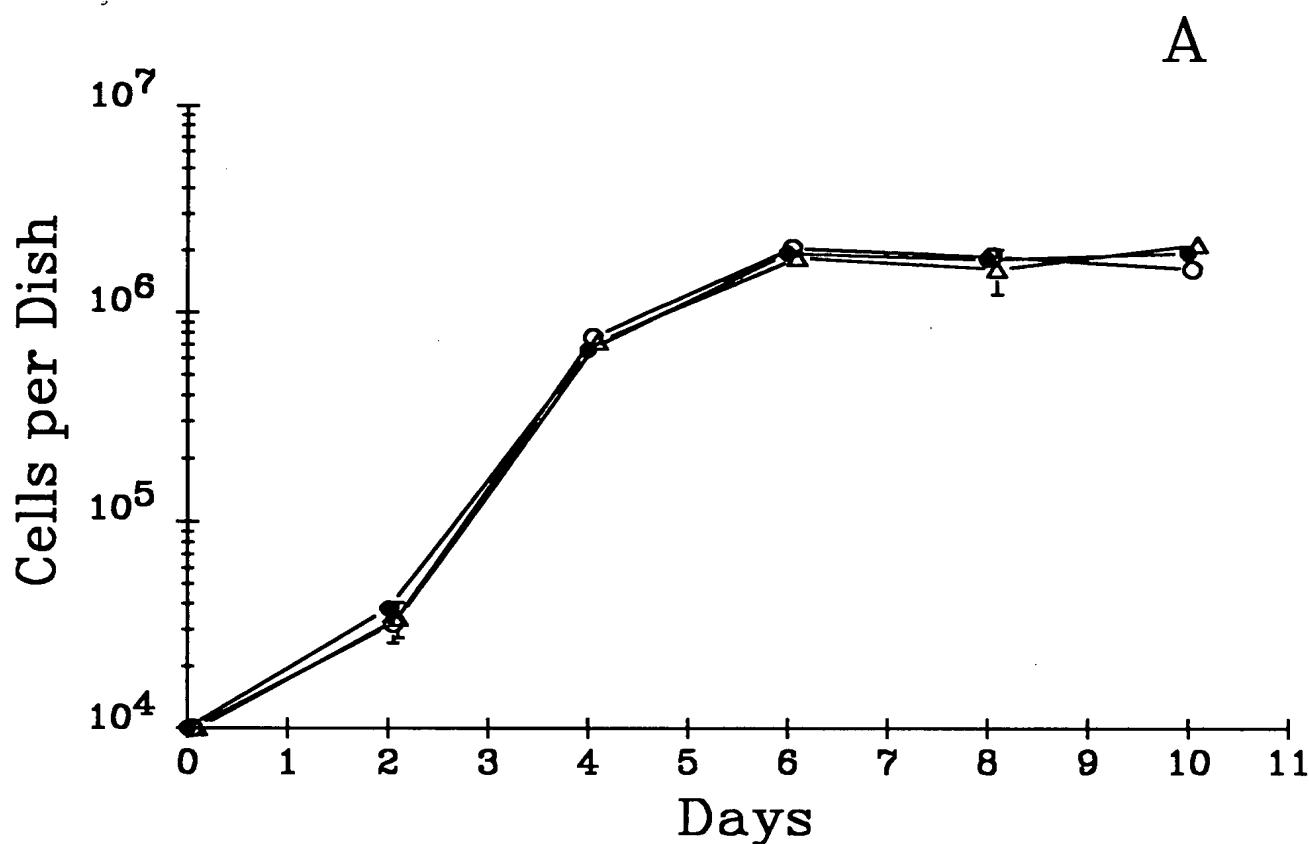


FIGURE 18

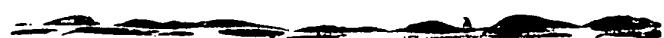
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FIGURE 19

A



B



C

